

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11206713  
PUBLICATION DATE : 03-08-99

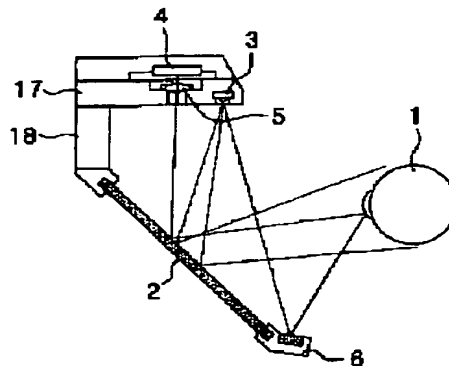
APPLICATION DATE : 26-01-98  
APPLICATION NUMBER : 10012390

APPLICANT : CANON INC;

INVENTOR : YAMADA AKIRA;

INT.CL. : A61B 3/113

TITLE : EQUIPMENT FOR DETECTING LINE  
OF SIGHT AND LINE-OF-SIGHT  
DETECTOR USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To prevent an eclipse from being generated in a visual field and to prevent the enlargement of an equipment by providing a second reflection means on the lower side for instance of an eyeball and reflecting and projecting line-of-sight detection light from a projection means to the eyeball.

SOLUTION: An IRED 3 for projection is attached to a base part 17 to which an image pickup element 4 and an image forming lens 5 are fixed and an IRED reflection mirror 6 is arranged on the opposite side of the IRED 3 across the eyeball, that is, on the lower side of the eyeball 1. The mirror 6 is arranged at an angle different from a dichroic mirror 2, a light beam from the IRED 3 is reflected and irradiated in the direction of the eyeball 1 and Purkinje images are formed. Thus, even when the IRED 3 is arranged at the upper part of the eyeball 1, the Purkinje images are formed. Wiring to the IRED 3 is housed in the base part 17, the need of providing an edge part around the dichroic mirror 2 is eliminated, this equipment is miniaturized and the generation of the eclipse in the visual field is prevented as well.

COPYRIGHT: (C)1999,JPO